

CSD-A510 LH(S),EZ(S),K(S) CSD-A519 LH1J(S)



SERVICE MANUAL

COMPACT DISC RADIO CASSETTE RECORDER

BASIC TAPE MECHANISM: TN-21ZVC-2000 BASIC CD MECHANISM: DA11T3C

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CSD-A510 LH(S)(S/M Code No. 09-003-343-2T1) CSD-A510 EZ(S),K(S)/A519 LH1J(S)(S/M Code No. 09-003-343-2T2).





SPECIFICATIONS

LH, HA MODELS

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530 - 1,710 kHz Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms, T.H.D. 10%), 1.9 W + 1.9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 110 - 120 V/220 - 240 V switchable, 50/60 Hz / Power consumption — 14 W / Dimensions — 302 (W) × 162 (H) × 253 (D) mm / Weight (excluding batteries) — 2.7 kg

 Design and specifications are subject to change without notice.

K MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, MW: 530 - 1,605 kHz Ferrite bar antenna, LW: 150 - 285 kHz Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms, T.H.D. 10% DC), 1.9 W + 1.9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption — 14 W / Dimensions — 302 (W) × 162 (H) × 253 (D) mm / Weight — 2.7 kg (excluding batteries)

 Design and specifications are subject to change without notice.

EZ MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, MW: 530 - 1,605 kHz Ferrite bar antenna, LW: 150 - 285 kHz Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.9 W + 2.9 W (DIN MUSIC POWER), 2.5 W + 2.5 W (EIAJ 7 ohms, T.H.D. 10% DC), 1.9 W + 1.9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption — 14 W / Dimensions — 302 (W) × 162 (H) × 253 (D) mm / Weight — 2.7 kg (excluding batteries)

 Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

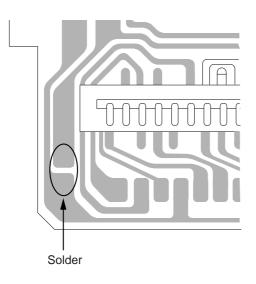
VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

 After the connection, remove solder shown in the right figure.



CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

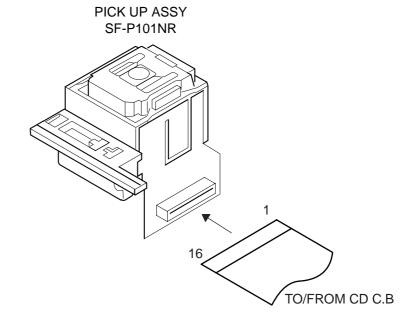
ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

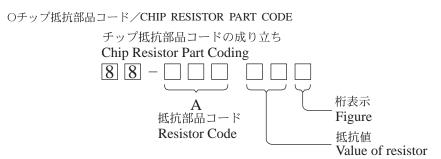
REF. NO	PART NO.	KANRI NO.	DESCRIPTION		REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC	87-A20-955-01 87-A21-064-01 87-A21-520-04 87-A20-446-01	10 IC,LA4 10 C-IC,N			C821 C822 C823 C824 C829	87-010-401- 87-010-401- 87-010-178- 87-010-178- 87-010-178-	080 CA 080 CH 080 CH	P, ELECT 1-50V P, ELECT 1-50V IP CAP 1000P IP CAP 1000P IP CAP 1000P
	87-A20-459-01 87-A21-093-01 8A-CD9-610-01 87-A21-431-01	0 C-TC.T	.C78622ED 5541D .C865516A-5K51 4560N		C830 C833 C834 C835 C836	87-010-178- 87-018-195- 87-010-248- 87-010-322- 87-010-322-	080 CA 080 CA 080 C-	IP CAP 1000P P, CER 1200P-16V P, ELECT 220-10V CAP,S 100P-50 CH CAP,S 100P-50 CH
TRANSISTO		000 TT 000	20514 (0.15)		C843 C844 C845	87-010-197- 87-018-124- 87-010-178-	080 CA 080 CH	P, CHIP 0.01 DM P, CER 270P-50V IP CAP 1000P
	89-327-143-08 87-026-447-08 87-026-463-08 87-026-213-08	30 TR,2SC 30 TR,2SC 30 TR,2SA 30 CHIP-1	22714 (U.1W) 21740S R A933S (U.3W) TR,DTC114YK		C846 C851 C852	87-010-263- 87-010-186- 87-010-178-	080 CA	P, ELECT 100-10V P,CHIP 4700P IP CAP 1000P
	89-112-965-08 87-026-291-08 89-213-702-08	30 TR,2SA 30 TR,DTC 30 TR,2SA	1296 (0.75W) 2124XS 31370E		C853 C853 CN201 CN801	87-018-211- 87-A11-145- 87-099-018- 87-A60-110-	080 CA 010 CO	P, CER 0.01-50 <lh<s>> P,TC U 0.01-50 Z F<except lh<s="">> NN,16P NN,4P V S2M-4W</except></lh<s>
	87-026-462-08 89-318-154-08 89-109-332-38	30 TR,2SC 30 TR,2SC 30 TR,2SA	22714 (0.1W) 21740S R 1933S (0.3W) CR,DTC114YK 11296 (0.75W) 2124XS 11370E 11740 S(RS 0.3W) 21815 (0.4W) 1933RS		CNA302 CNA801 L801	8A-CD9-629- 8A-CD9-630- 87-007-342-	010 CO	NN ASSY,6P MA-TU NN ASSY, 4P RPH IL,OSC 85K BIAS
	89-113-187-08 87-026-295-08 89-317-403-08 87-026-239-08	30 TR, 2SC	71441V		SW801 CD C.B	8Z-CD9-609-		,SL 1-6-2 PS62D01
	87-026-464-08		2114TS (0.3W)		C30 C261	87-010-260- 87-010-402-		P, ELECT 47-25V P, ELECT 2.2-50V
DIODE	87-020-465-08		1SS133 (110MA)		C262 C263	87-010-402- 87-010-178- 87-010-178-	080 CA 080 CH	P, ELECT 2.2-50V IP CAP 1000P IP CAP 1000P
	87-A40-128-08 87-027-607-08 87-070-345-08 87-A40-648-08	30 ZENER, 30 DIODE,	I-CAP, HVU202A HZ7B3L IN4148 MTZJ8.2A		C265 C266 C267	87-010-263- 87-010-263- 87-010-112-	080 CA 080 CA	P, ELECT 100-10V P, ELECT 100-10V P, ELECT 100-16V
	87-017-978-08 87-027-702-08 87-A40-465-01	30 DIODE,	1N4003 ZENER HZ6C2L (200M	A)	C268 C271	87-010-112- 87-010-237- 87-010-237-	080 CA	P, ELECT 100-16V P, ELECT 1000-16V P, ELECT 1000-16V
MAIN C.B		,			C278 C279 AC301 C306	87-010-405- 87-010-385- 87-016-495- 87-010-404-	080 CA 080 CA 000 CA	P, ELECT 10-50V P, ELECT 220-25V P,E 3300-25 M SMG P, ELECT 4.7-50V
C211 C212 C215 C216 C231	87-A11-603-08 87-A11-603-08 87-016-460-08 87-016-460-08 87-010-213-08	30 CAP, S 30 C-CAP, 30 C-CAP,	8 0.15-16 8 0.15-16 S 0.22-16 B S 0.22-16 B S 0.015-50 B		C307 C308 C311 C312	87-010-401- 87-010-221- 87-010-263- 87-010-385-	080 CA 080 CA 080 CA 080 CA	P, ELECT 1-50V P, ELECT 470-10V P, ELECT 100-10V P, ELECT 220-25V
C232 C233 C234 C235 C236	87-010-213-08 87-A10-201-08 87-A10-201-08 87-016-669-08 87-016-669-08	30 C-CAP, 30 C-CAP, 30 C-CAP,	S 0.015-50 B S0.33-16 KB S0.33-16 KB S 0.1-25 K B S 0.1-25 K B		C321 C322 C325 C401 C402	87-010-197- 87-010-263- 87-010-405- 87-010-403- 87-010-197-	080 CA 080 CA 080 CA 080 CA	P, CHIP 0.01 DM P, ELECT 100-10V P, ELECT 10-50V P, ELECT 3.3-50V P, CHIP 0.01 DM
C237 C239 C240 C247 C248	87-010-371-08 87-010-197-08 87-010-197-08 87-010-401-08 87-010-401-08	30 CAP, C 30 CAP, C 30 CAP, E	ELECT 470-50V HHIP 0.01 DM CHIP 0.01 DM ELECT 1-50V ELECT 1-50V		C403 C404 C405 C406 C407 C408	87-010-263- 87-010-248- 87-010-197- 87-010-374- 87-010-178- 87-010-198-	080 CA 080 CA 080 CA 080 CH	P, ELECT 100-10V P, ELECT 220-10V P, CHIP 0.01 DM P, ELECT 47-10V IP CAP 1000P P, CHIP 0.022
C310 C316 C317 C801 C805	87-010-248-08 87-010-263-08 87-010-197-08 87-010-248-08 87-012-365-08	30 CAP,E 30 CAP, C 30 CAP, E	ELECT 220-10V 100-10 CHIP 0.01 DM ELECT 220-10V S 0.027-25VBK		C409 C410 C411 C412 C413	87-010-248- 87-010-263- 87-A11-177- 87-010-401- 87-016-369-	080 CA 080 CA 080 C- 080 CA	P, ELECT 220-10V P, ELECT 100-10V CAP,S 0.15-16 K B P, ELECT 1-50V CAP,S 0.033-25 B K
C806 C807 C808 C809 C810	87-012-365-08 87-010-405-08 87-010-405-08 87-010-401-08 87-010-401-08	30 CAP, E 30 CAP, E 30 CAP, E	S 0.027-25VBK ELECT 10-50V ELECT 10-50V ELECT 1-50V ELECT 1-50V		C414 C416 C417 C418	87-010-405- 87-010-545- 87-012-157- 87-010-213-	080 CA 080 CA 080 C- 080 C-	P, ELECT 10-50V P, ELECT 0.22-50V CAP,S 330P-50 CH CAP,S 0.015-50 B
C811 C812 C816 C817	87-010-178-08 87-010-178-08 87-010-180-08 87-010-180-08	30 CHIP (30 C-CER			C419 C420 C421 C422	87-A11-608- 87-016-369- 87-A11-177- 87-010-183-	080 C-	CAP,S 0.33-25 K B CAP,S 0.033-25 B K CAP,S 0.15-16 K B CAP,S 2700P-50 B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANF NO.	
C423 C424 C425 C426 C428	87-010-956-080 87-010-993-080 87-010-176-080 87-A11-608-080 87-010-197-080	C-CAP,S C-CAP,S C-CAP,S	P,S 0.068-25B 0.056-25 B 680P-50 SL 0.33-25 K B IP 0.01 DM	CN403 CN802 CNA205 CNA402 CNA802	87-099-201-01 8A-CH4-687-01 8A-CD9-631-01 8A-CD9-625-01 8A-CD9-631-01	10 10 10	CONN,8P 6216 H CONN,4P V 2.5 CONN ASSY, 2P DOOR CONN ASSY,6P CD-ME CONN ASSY, 4P TP-ME
C429 C430 C431 C432 C433	87-010-186-080 87-012-156-080 87-010-545-080 87-010-374-080 87-010-401-080	CAP,CHI C-CAP,S CAP, EL CAP, EL	P 4700P 220P-50 CH ECT 0.22-50V ECT 47-10V ECT 1-50V	L401 L404 <u>^</u> R840 SFR430 SW205	87-003-102-08 87-003-152-08 87-029-124-03 87-024-437-08 87-036-389-03	30 10 30	COIL, 10UH COIL, 100UH RES,FUSE 2.2-1/4 SFR100K,RH063EC SW, PUSH 1-1-1 R8120125
C434 C435 C436 C437 C438	87-010-184-080 87-010-197-080 87-010-374-080 87-010-404-080 87-016-669-080	CAP, CH CAP, EL CAP, EL	PACITOR 3300P(K) IP 0.01 DM ECT 47-10V ECT 4.7-50V 0.1-25 K B	X401 FRONT C.B	8Z-CD5-633-01	10	VIB, CER16.93MHZ FCR16.93M2
C439 C440 C441 C442 C445	87-010-178-080 87-010-145-080 87-010-197-080 87-010-312-080 87-012-368-080	CHIP CA C-CAP, CAP, CH C-CAP,S C-CAP,S	P 1000P S 1P-50 C CH IP 0.01 DM 15P-50 CH 0.1-50 F	C601 C602 C603 C604 C605	87-010-313-08 87-010-315-08 87-010-319-08 87-010-317-01 87-010-264-04	80 80 10 40	CAP, CHIP 18P C-CAP,S 27P-50 CH C-CAP,S 56P-50 CH CHIP CAP,S 39P CH CAP,E 100-10 5L
C446 C447 C448 C450 C451	87-012-368-080 87-012-368-080 87-010-315-080 87-012-140-080 87-012-156-080	C-CAP,S C-CAP,S C-CAP 470	0.1-50 F 0.1-50 F 27P-50 CH P 220P-50 CH	C607 C608 C609 C611	87-012-368-08 87-015-779-01 87-010-401-08 87-010-400-08 87-A10-189-04	10 80 80 40	C-CAP,S 0.1-50 F CHIP CAPACITOR, 0.01 CAP, ELECT 1-50V CAP, ELECT 0.47-50V CAP,E 220-10 M5L
C455 C457 C458 C459 C460	87-010-247-080 87-010-312-080 87-010-312-080 87-010-263-080 87-015-819-080	C-CAP,S C-CAP,S CAP, EL CAPACIT	OR,0.01	C613 C614 C617 C618 C620	87-012-368-08 87-010-312-08 87-012-368-08 87-018-209-08 87-015-819-08	30 30 30	C-CAP,S 0.1-50 F C-CAP,S 15P-50 CH C-CAP,S 0.1-50 F CAP,TC U 0.1-50 ZF C-CAP,0.01-50 K B
C461 C462 C463 C465 C466	87-010-197-080 87-010-248-080 87-010-197-080 87-010-404-080 87-012-368-080	C-CAP.S	IP 0.01 DM ECT 220-10V IP 0.01 DM ECT 4.7-50V 0.1-50 F	C621 C622 C623 C624 C625	87-015-819-08 87-015-779-01 87-015-779-01 87-015-779-01 87-015-779-01	10 10 10	C-CAP,0.01-50 K B CHIP CAPACITOR, 0.01 CHIP CAPACITOR, 0.01 CHIP CAPACITOR, 0.01 CHIP CAPACITOR, 0.01
C467 C469 C470 C471 C472	87-010-263-080 87-012-154-080 87-010-544-080 87-015-785-080 87-015-785-080	CAP, EL C-CAP,S CAP, EL CHIP CA	ECT 100-10V 150P-50 CH ECT 0.1-50V PACITOR, 0.1FZ-25Z PACITOR, 0.1FZ-25Z	C626 C627 C628 C629 C630	87-015-779-01 87-015-779-01 87-018-209-08 87-018-119-08 87-018-119-08	10 30 30	CHIP CAPACITOR, 0.01 CHIP CAPACITOR, 0.01 CAP,TC U 0.1-50 ZF UP050 CAP,TC U 100P-50 K B UP050 CAP,TC U 100P-50 K B UP050
C473 C474 C475 C476 C477	87-015-785-080 87-015-785-080 87-010-197-080 87-010-236-080 87-010-197-080	CAP,E 1	PACITOR, 0.1FZ-25Z PACITOR, 0.1FZ-25Z IIP 0.01 DM 000-10 SME IP 0.01 DM	C631 C632 CN601 CN602 L601	87-018-119-08 87-018-119-08 87-099-033-03 87-099-201-03 87-003-102-08	30 10 10	CAP,TC U 100P-50 K B UP050 CAP,TC U 100P-50 K B UP050 CONN,16P 6216H CONN,8P 6216 H COIL, 10UH
C478 C479 C480 C481 C482	87-010-263-080 87-010-197-080 87-010-221-080 87-010-405-080 87-010-405-080	CAP, EL CAP, CH CAP, EL CAP, EL	ECT 100-10V IP 0.01 DM ECT 470-10V ECT 10-50V ECT 10-50V	L602 L603 L604 L606 LED601	87-003-147-08 87-005-798-03 87-005-798-03 87-003-149-08 88-CD6-630-03	10 10 30	COIL,22UH J LAL02 COIL,1.0UH J LAL02 COIL,1.0UH J LAL02 COIL,47UH J LAL02 LED,934ID RED
C483 C484 C489 C490 C491	87-012-156-080 87-012-156-080 87-012-368-080 87-012-368-080 87-010-197-080	C-CAP,S C-CAP,S C-CAP,S C-CAP,S	220P-50 CH 220P-50 CH 0.1-50 F 0.1-50 F	LED602 LED603 LED608 LED610 LED611	88-CD6-630-0 88-CD6-630-0 88-CD6-630-0 88-CD6-631-0 87-CD8-616-0	10 10 10 10	LED,934ID RED LED,934ID RED LED,934ID RED LED,934GD GRN LED,SA36-11 HWA-11.0
C492 C494 C495 C501 C502	87-010-221-080 87-010-197-080 87-016-669-080 87-012-368-080 87-010-322-080	CAP, CH C-CAP,S C-CAP,S	ECT 470-10V IP 0.01 DM 0.1-25 K B 0.1-50 F 100P-50 CH	S601 S602 S603 S604 S605	87-A90-696-08 87-A90-696-08 87-A90-696-08 87-A90-696-08 87-A90-696-08	30 30 30 30	SW,TACT TS2103-03-430 SW,TACT TS2103-03-430 SW,TACT TS2103-03-430 SW,TACT TS2103-03-430 SW,TACT TS2103-03-430
C503 C504 C505 C506 C510	87-010-322-080 87-010-322-080 87-010-322-080 87-010-322-080 87-016-669-080	C-CAP,S C-CAP,S C-CAP,S	100P-50 CH 100P-50 CH 100P-50 CH 100P-50 CH 0.1-25 K B	S609 S611 S614 S615 X601	87-A90-696-08 87-A90-696-08 87-A90-696-08 87-A90-696-08 87-030-273-03	30 30 30 10	SW, TACT TS2103-03-430 SW, TACT TS2103-03-430 SW, TACT TS2103-03-430 SW, TACT TS2103-03-430 VIB, XTAL 32.768K5PPM
C831 CN202 CN205 CN301 CN401	87-010-198-080 8A-CH4-689-010 87-A60-109-010 8A-CH4-689-010 87-A60-424-010	CONN, 3P CONN, 2P CONN, 3P	V S2M-2W	X602 TUNER C.B	87-030-376-08 87-010-314-08		VIB, CER CSA5.76MG200 C-CAP,S 22P-50V

REF. NO		NRI DESCRIPTION O.	REF. NO		NRI DESCRIPTION IO.
C2 C3 C4 C5 C7	87-010-316-080 87-010-314-080 87-010-322-080 87-010-378-080 87-012-156-080	C-CAP,S 33P-50 CH C-CAP,S 22P-50V C-CAP,S 100P-50 CH CAP, ELECT 10-16V C-CAP,S 220P-50 CH	L8 L9 L10 L16 L17	87-A50-335-010 87-A50-577-010 87-005-849-080 87-A50-569-010 87-A50-337-010	COIL,FM IFT (TOKO) COIL,FM DET(ACD) COIL,10UH(CECS) COIL,LW OSC-ACD(COI) <k<s>,EZ<s>> COIL,AM OSC (TOKO)<k<s>,EZ<s>></s></k<s></s></k<s>
C8 C9 C10	87-010-197-080 87-010-311-080 87-010-197-080	CAP, CHIP 0.01 DM CAP 12P CAP, CHIP 0.01 DM	PVC1 PVC1	87-A91-635-010 87-A91-167-010	TUN-CAP,20P-140P E-ACD (MITSUMI <k<s>,EZ<s>> TUN-CAP,20P-160P FA-22125 N000</s></k<s>
C11 C12	87-010-152-080 87-010-314-080	C-CAP,S 8P-50 D CH C-CAP,S 22P-50V	SW1	87-A91-548-010	<pre></pre>
C13 C14 C15	87-010-322-080 87-010-148-080 87-016-669-080	C-CAP,S 100P-50 CH C-CAP,S 4P-50 C CH C-CAP,S 0.1-25 K B	SW1 TC5	87-A91-549-010 87-011-253-080	SW,SL-6-4 SK64D01G06 <k<s>,EZ<s>> TRIMER,30P LAR<k<s>,EZ<s>></s></k<s></s></k<s>
C16 C17	87-010-178-080 87-016-669-080	CHIP CAP 1000P C-CAP,S 0.1-25 K B	TC6	87-011-253-080	TRIMMER,CER 30P 4.0X4.5 ECR <k<s>,EZ<s>></s></k<s>
C18	87-010-197-080 87-010-188-080	CAP, CHIP 0.01 DM	J <s>> H.P. C.B</s>		
C19 C20 C21	87-016-669-080 87-010-400-080 87-010-403-080	C-CAP,S 0.1-25 K B CAP, ELECT 0.47-50V CAP, ELECT 3.3-50V	CN101 CN102 HP1	8A-CD9-628-010 87-A60-685-010 87-A60-569-010	CONN ASSY, 3P MA-HP CONN, 4P H WHT EH JACK, HTJ-035-18
C22 C24	87-010-197-080 87-A11-569-080	CAP, CHIP 0.01 DM C-CAP,S 0.012-50 K B <lh<s>,519LH1</lh<s>	BATT1 C.E	3	
C24 C25 C25	87-010-189-080 87-010-189-080 87-A11-569-080	C-CAP,S 8200P-50 K B <k<s>,EZ-C-CAP,S 8200P-50 K B<k<s>,EZ-C-CAP,S 0.012-50 K B <lh<s>,519LH1</lh<s></k<s></k<s>	<\$>> C901 <\$>> C902 C903	87-010-192-080 87-010-192-080 87-010-192-080 87-010-192-080 8A-CD9-627-010	C-CAP,S 0.022-50 F C-CAP,S 0.022-50 F C-CAP,S 0.022-50 F C-CAP,S 0.022-50 F CONN ASSY,3P PWR
C26 C27 C28 C29 C30	87-012-358-080 87-012-358-080 87-010-992-080 87-010-992-080 87-010-248-080	C-CAP,S 0.47-10 Z F C-CAP,S 0.47-10 Z F C-CAP,S 0.047-25 B C-CAP,S 0.047-25 B CAP, ELECT 220-10V	<u>↑</u> PR901 SP901 SP902	87-A90-092-080 87-CD6-213-010 87-CD6-213-010	PROTECTOR, 2.5A 491 SPR-C, BATT (-) SPR-C, BATT (-)
C31 C32	87-010-379-080 87-010-197-080	CAP, ELECT 22-16V CAP, CHIP 0.01 DM	BATT2 C.E		
C33 C34 C35	87-010-197-080 87-010-197-080 87-010-197-080	CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM CAP, CHIP 0.01 DM	SP903 SP904	87-CD6-213-010 87-CD6-213-010	SPR-C,BATT (-) SPR-C,BATT (-)
C36 C37	87-010-263-080 87-010-197-080	CAP, ELECT 100-10V CAP, CHIP 0.01 DM	MOTOR C.E		
C40 C41 C42	87-010-329-080 87-010-321-080 87-010-150-080	C-CAP,S 6P-50 D UJ <k<s>,EZ<s: CHIP CAPACITOR,82P(J)<k<s>,EZ C-CAP,S 6P-50 CH<k<s>,EZ<s>></s></k<s></k<s></s: </k<s>	Z <s>> PIN3</s>	9X-262-576-910 91-564-722-110 91-572-085-120	MOTOR GEAR ASSY CONNECTOR 6P LEAF SW
C44 C51 C56	87-012-140-080 87-010-197-080 87-010-327-080	CAP 470P <k<s>,EZ<s>> CAP, CHIP 0.01 DM C-CAP,S 4P-50 C UJ</s></k<s>	KEY C.B		
C92 CF1	87-010-178-080 87-A90-128-010	<pre><lh<s>,519LH1 CHIP CAP 1000P FLTR,AM IF CFAL-455</lh<s></pre>	.J <s>> S606 S607 S608</s>	87-A90-696-080 87-A90-696-080 87-A90-696-080	SW,TACT TS2103-03-430 SW,TACT TS2103-03-430 SW,TACT TS2103-03-430
CF2 CF3 CN2	87-008-261-010 87-008-261-010 87-A60-116-010	FILTER, SFE10.7MA5-A FILTER, SFE10.7MA5-A CONN,6P H S2M-6WR	VOL SEL C	C.B <lh<s>,519LH1J<</lh<s>	·S>>
L2 L3	87-A50-560-010 8A-CD9-660-010	COIL,FM BPF(ACD) BAR-ANT,MW 2B-ACD(COI) <lh<s>,519LH1</lh<s>	SW901 J <s>></s>	87-A91-369-010	SW,AC SL 2 2 2 SDKGA41700 <lh<s>,519LH1J<s>></s></lh<s>
L3	8A-CD9-661-010	BAR-ANT,MW/LW 3B-ACD(COI) <k<s>,E</k<s>	:Z <s>></s>		
L4 L5 L6	87-A50-562-010 87-A50-564-010 87-A50-337-010	COIL,FM RF EX(ACD) COIL,FM OSC EX(ACD) COIL,AM OSC (TOKO)			
L7	87-A50-579-010	<pre><lh<s>,519LH1 COIL,AM IFT(ACD)</lh<s></pre>	.u<3>>		

• Regarding connectors, they are not stocked as they are not the initial order items.

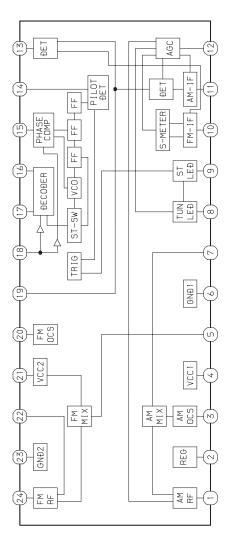
The connectors are available after they are supplied from connector manufacturers upon the order is received.



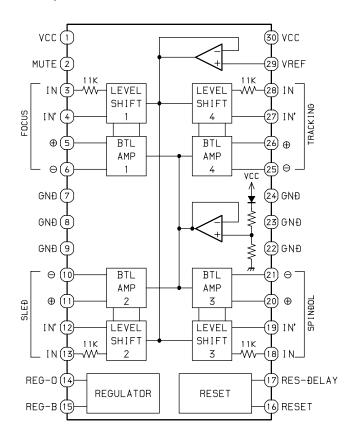
チップ抵抗 Chip resistor

容量	種類	許容誤差	記号	寸法/Dime	ensions	(mm)		抵抗コード : A
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ	L J t	1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ	ř	3.2	1.6	0.55	128

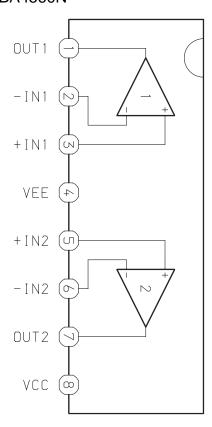
IC BLOCK DIAGRAM IC, LA1828



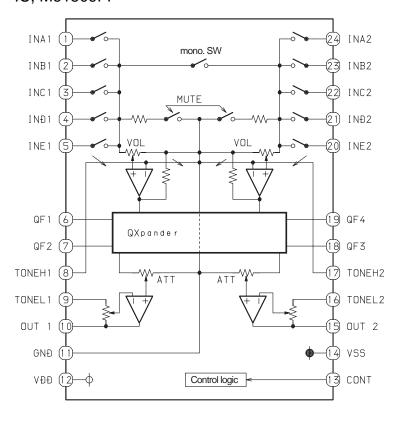
IC, LA6541D

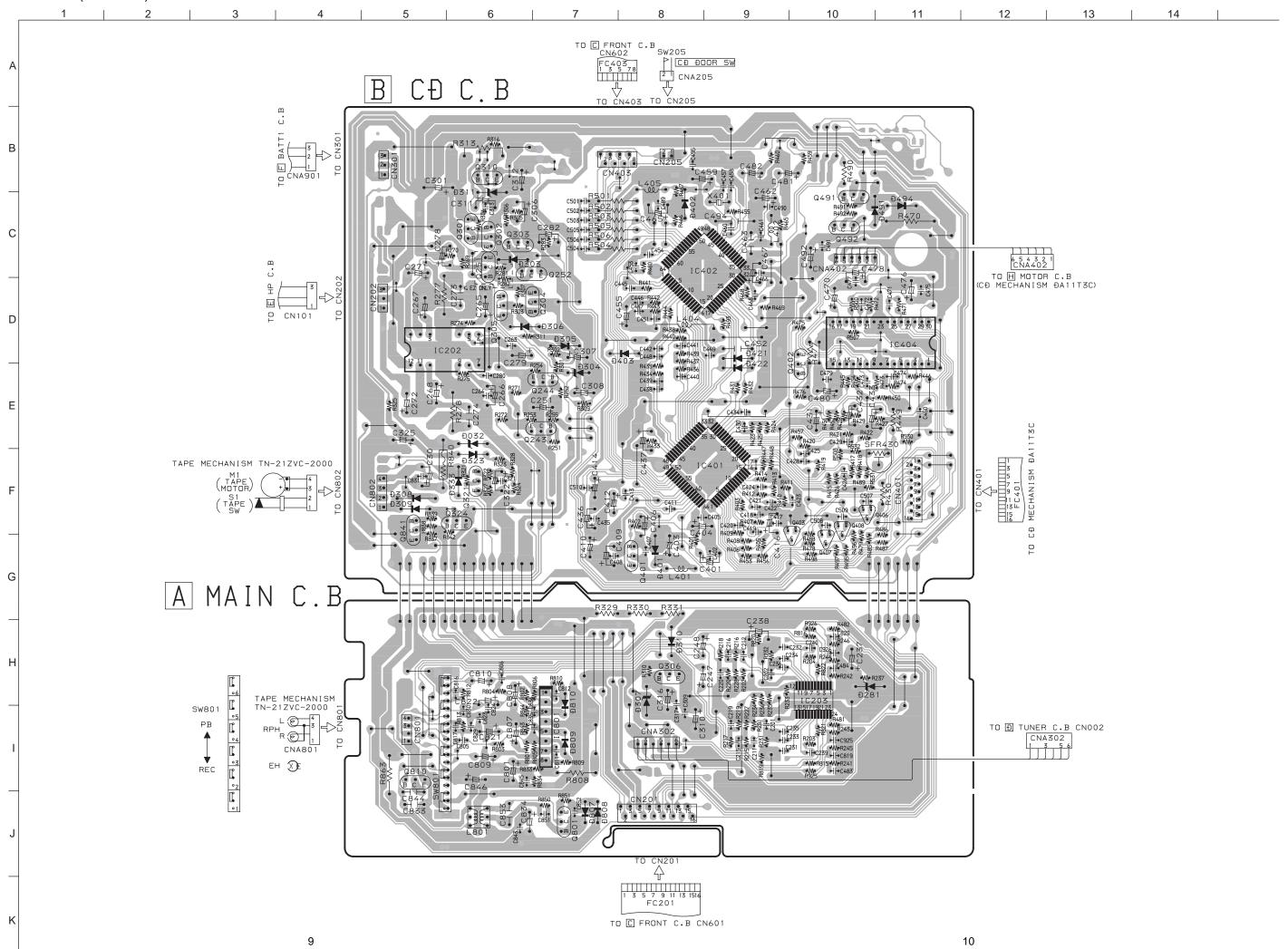


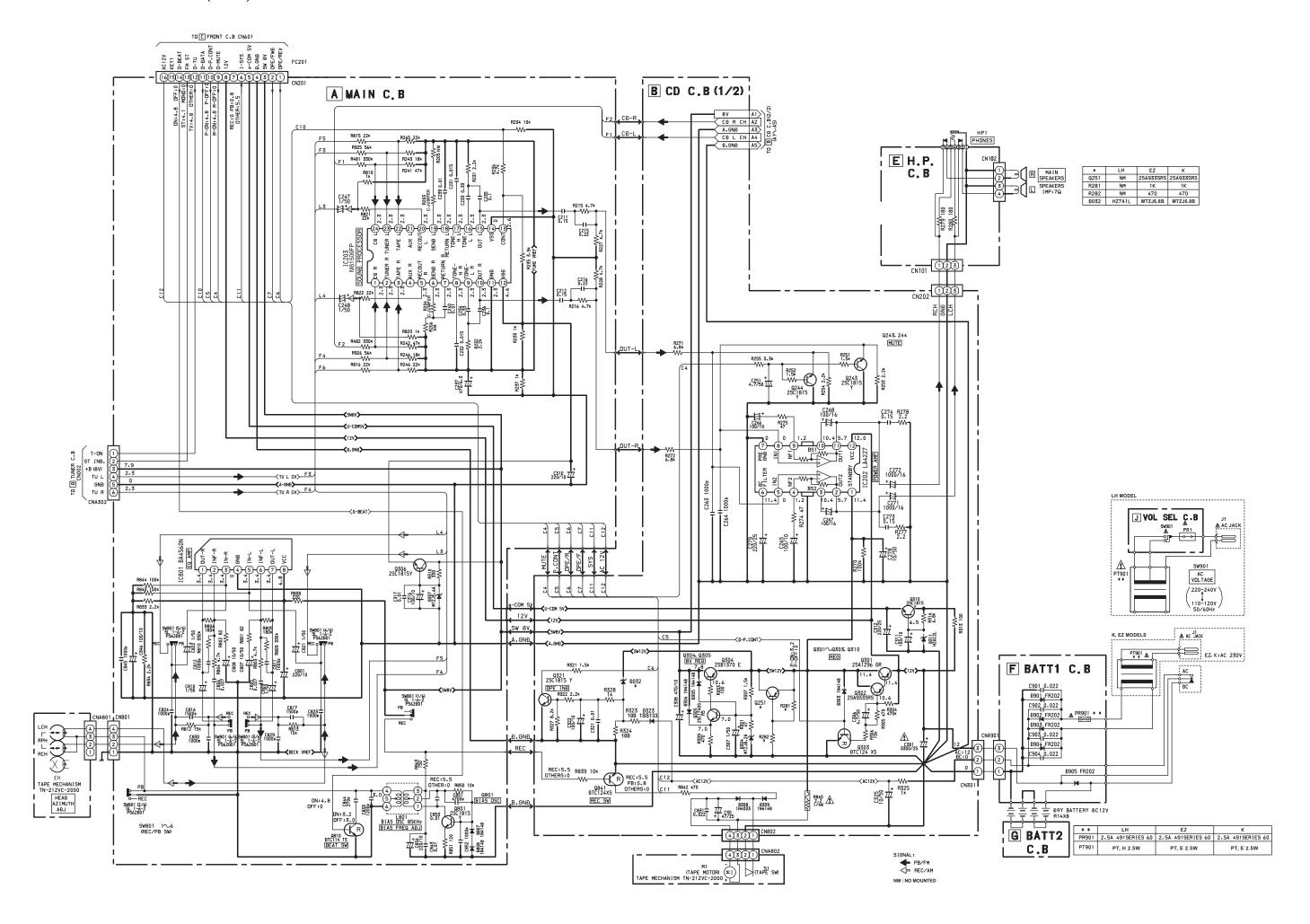
IC, BA4560N

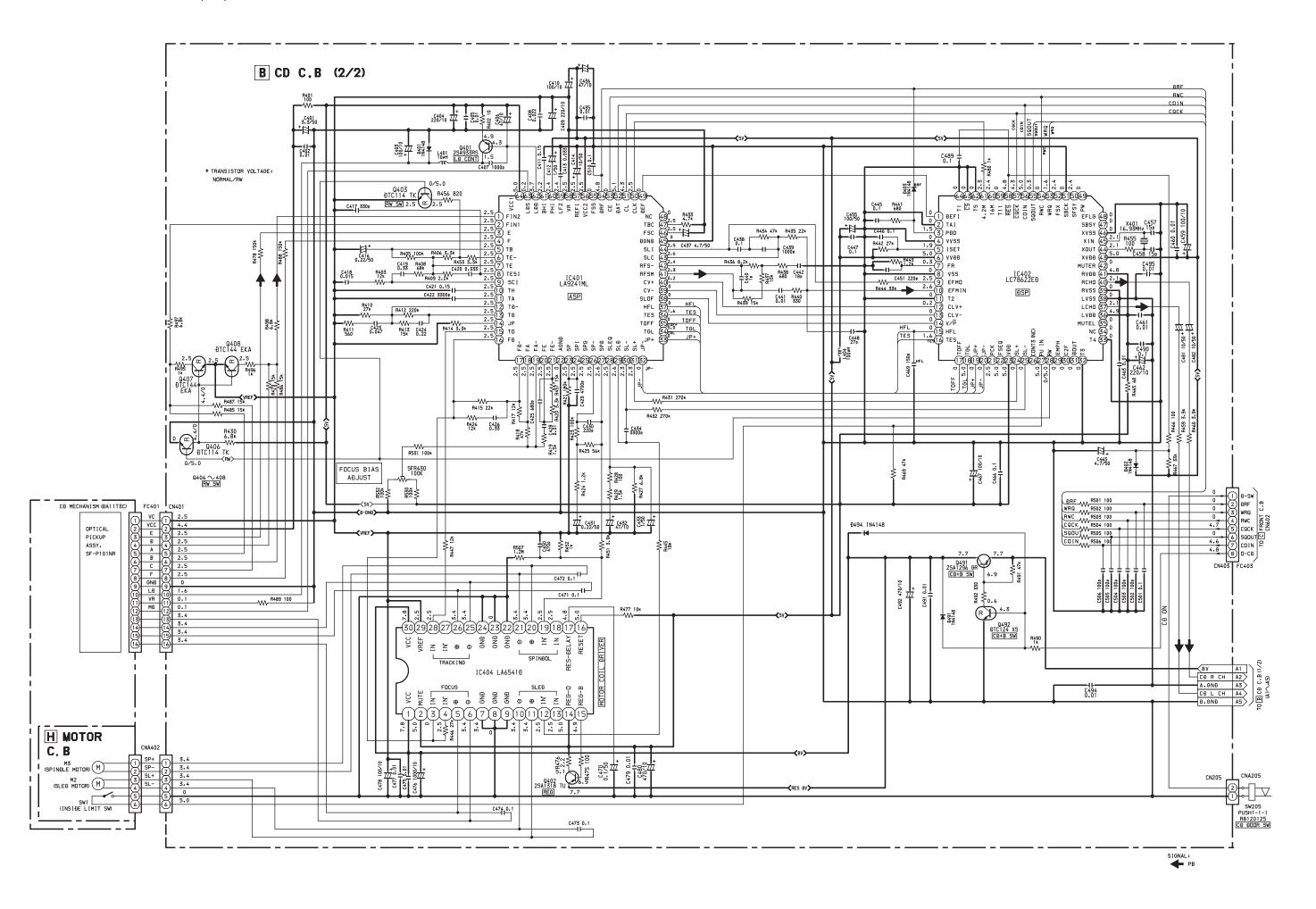


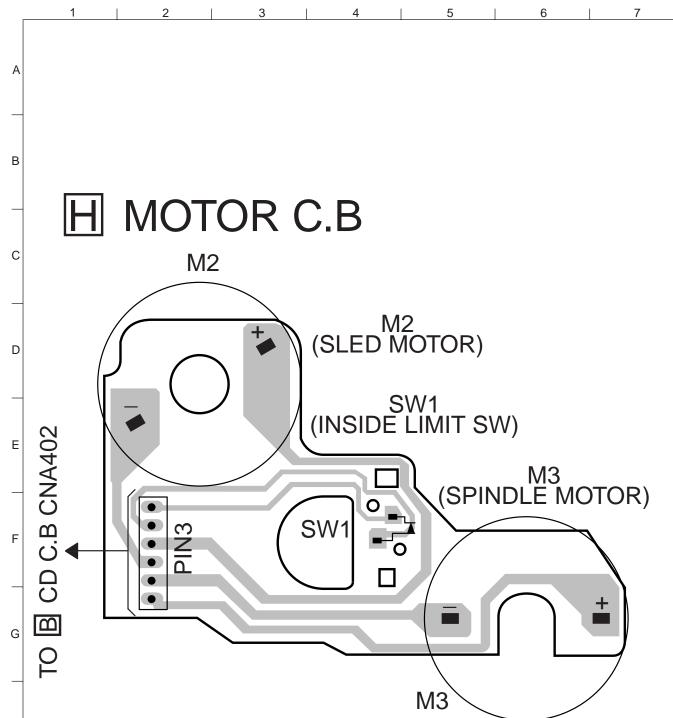
IC, M61509FP

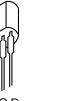












ECB 2SA1296

2SC1815

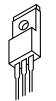
ECB

||||| ECB

2SA933 2SC1740

2SA1318

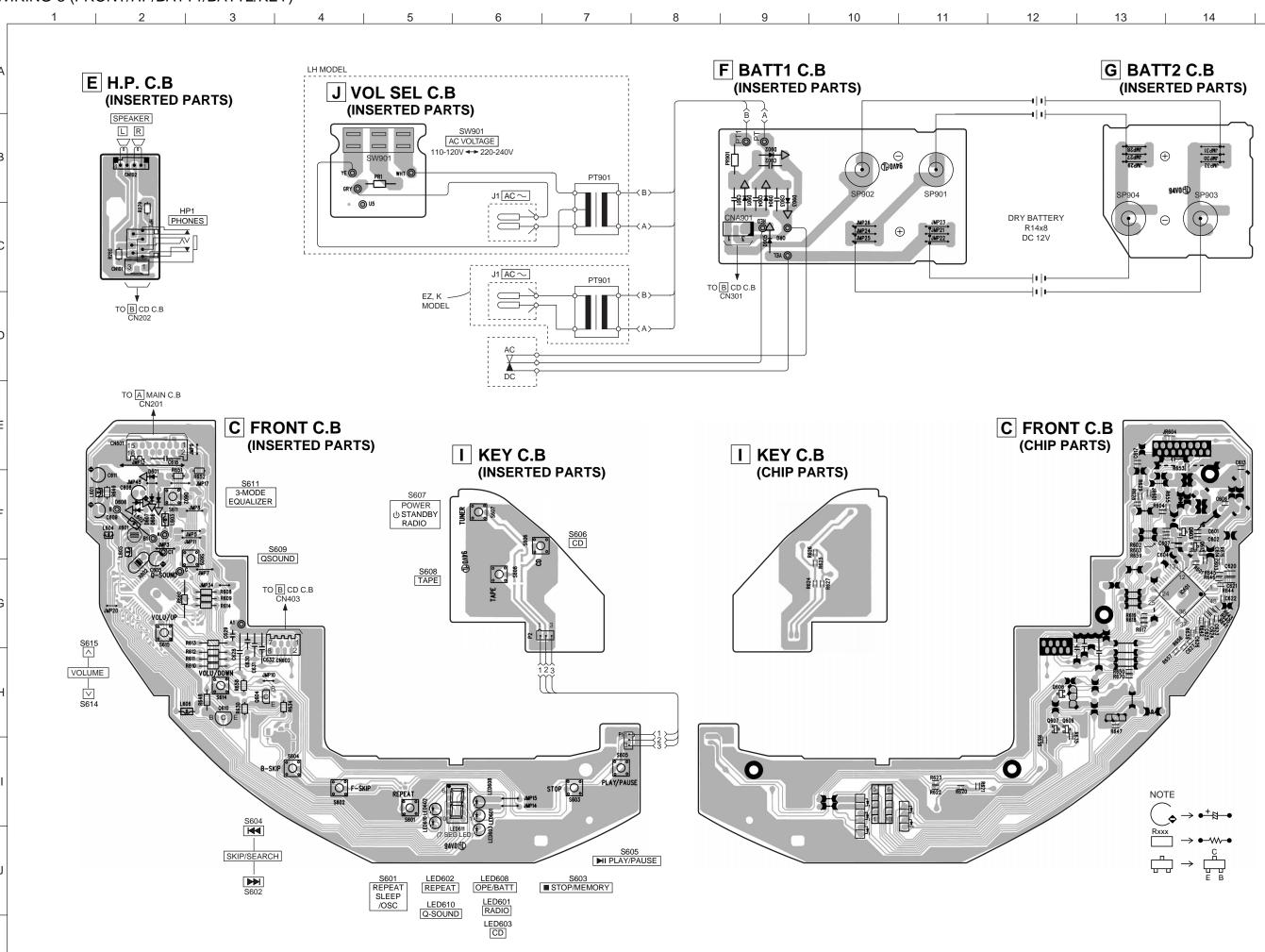
DTC114TS DTC124XS

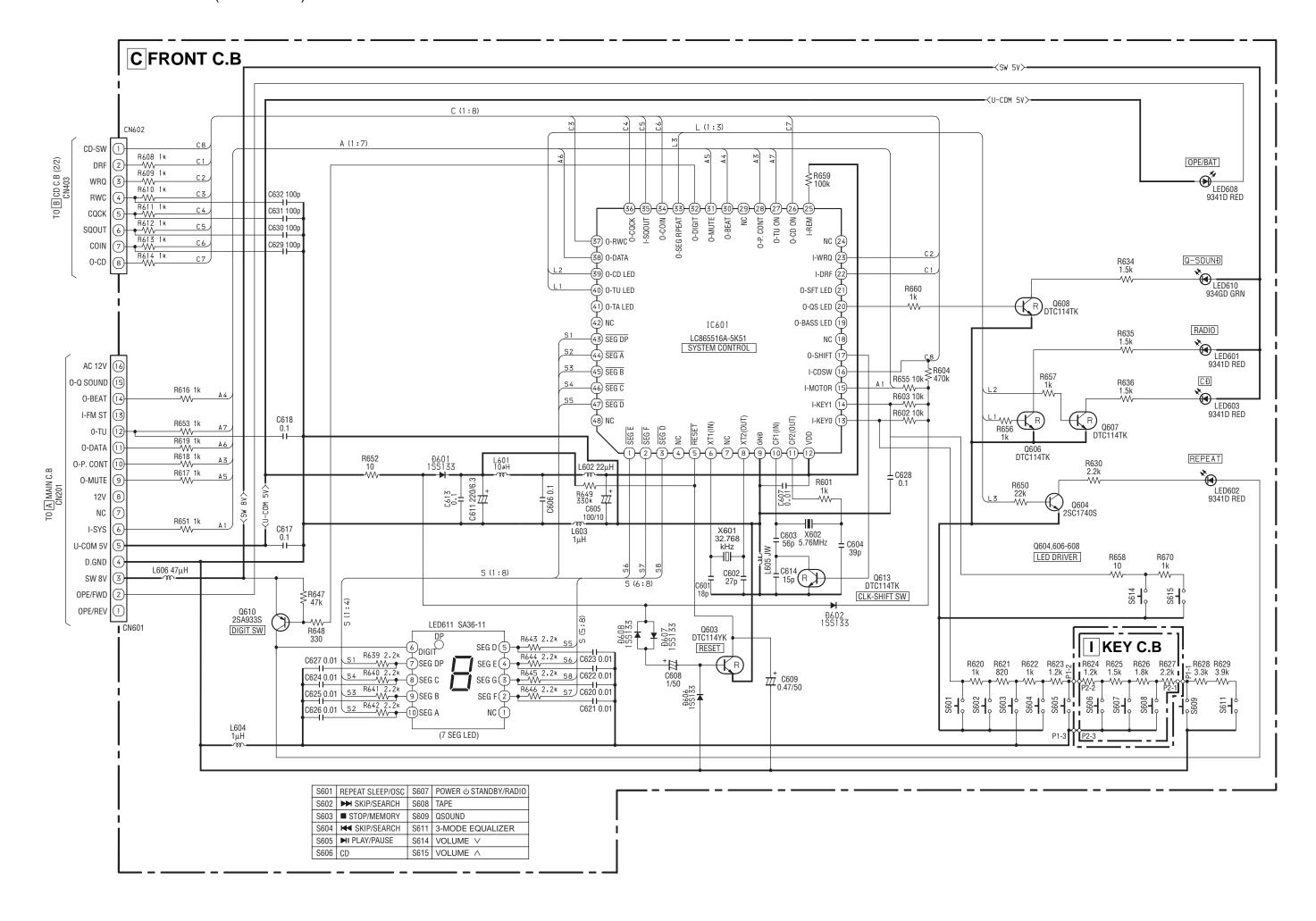


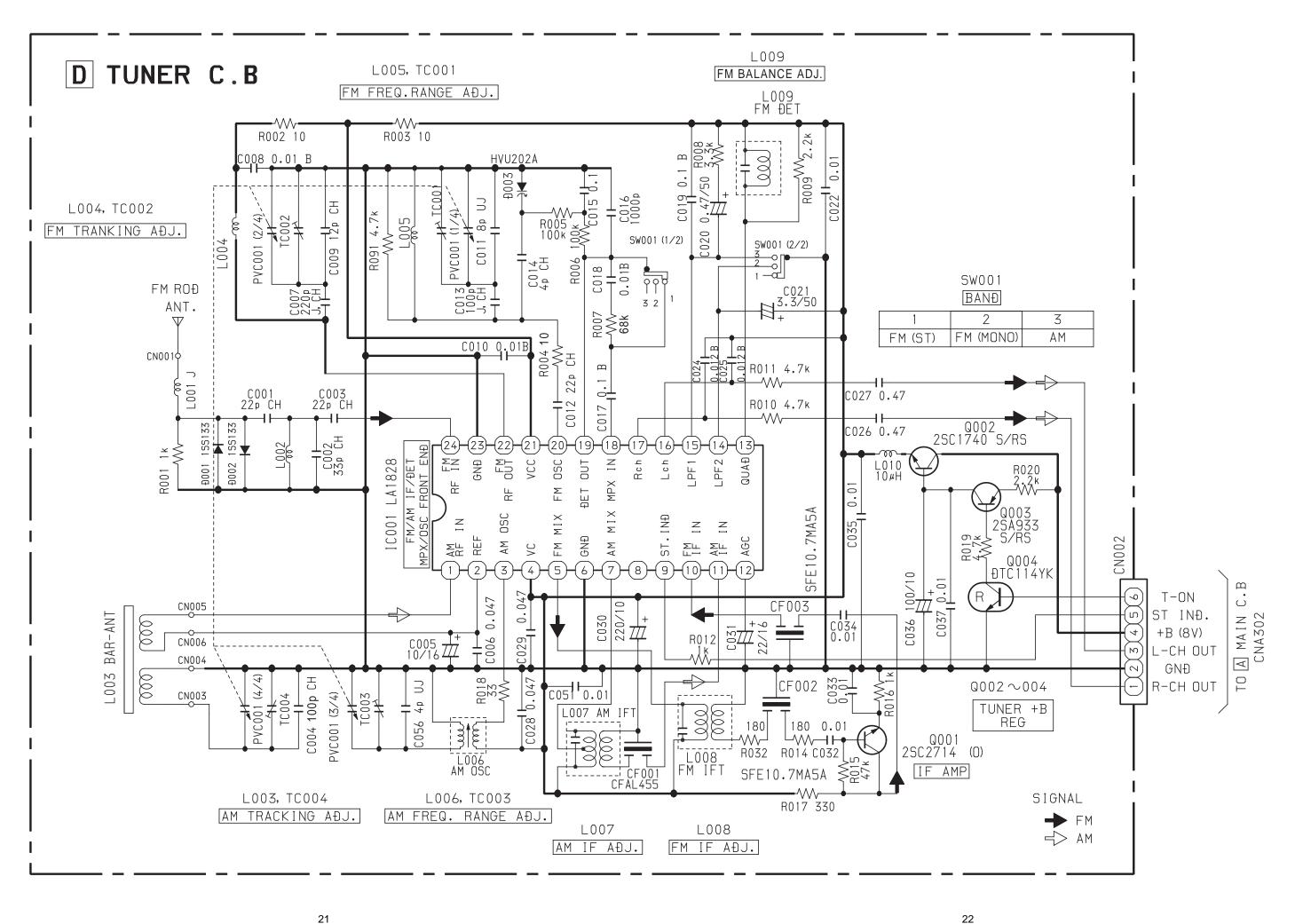
BCE 2SC2714 DTC114TK

2SB1370

DTC114YK DTC144TK







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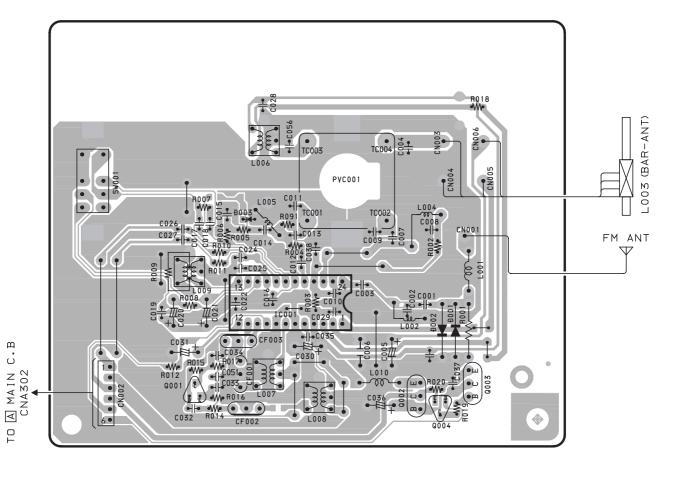
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Đ TUNER C.B



С

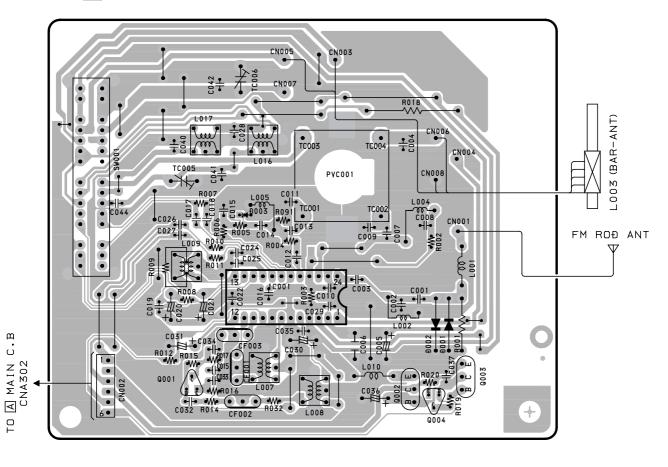
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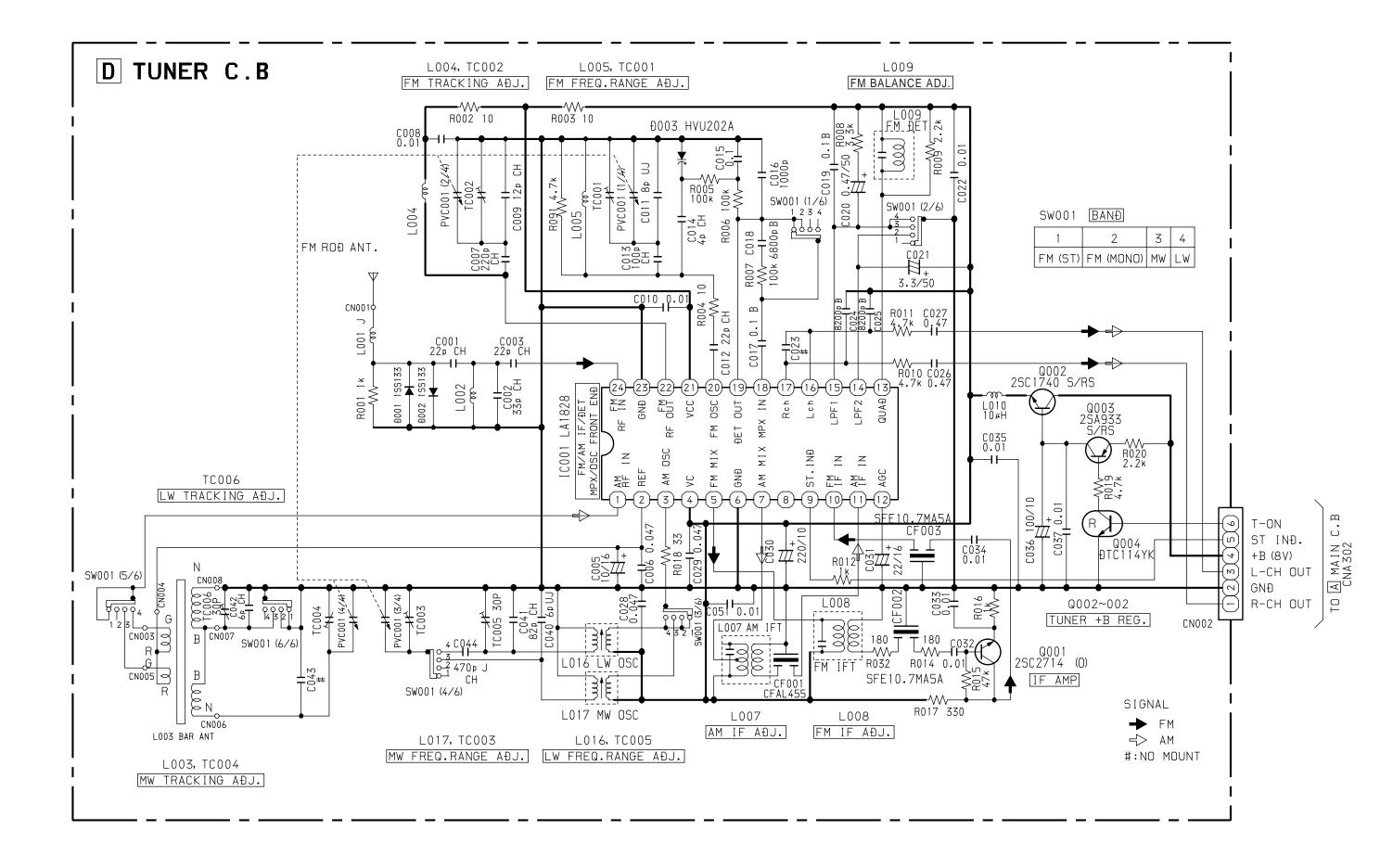
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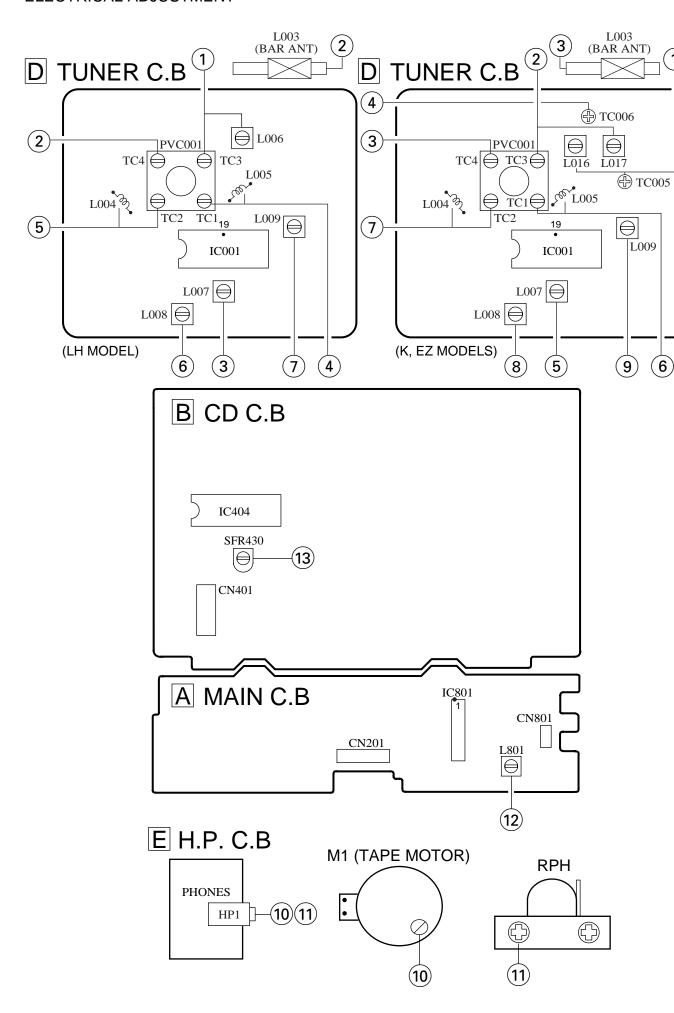
K

1 | 2 | 3 | 4 | 5 | 6 | 7

D TUNER C. B







<

(L	H MODEL)
1.	AM Freq. Range Adjustment L006
2.	AM Tracking Adjustment
	L003
	TC004
3.	AM IF Adjustment
	Settings: • Test point: IC001 (LA1828) 19PIN
	 Adjustment location: L007
	Method: Adjust L007 so that the output level at 1400kHz
	becomes maximum.
4.	FM Freq. Range Adjustment
	L005
	TC001

TC002

5. FM Tracking Adjustment

6. FM IF Adjustment Settings: • Test point: IC001 (LA1828) 19PIN

• Adjustment location: L008

Method: Adjust L008 so that the output level at 98.0MHz becomes balanced.

7. FM Balance Adjustment

Settings: • Test point: IC001 (LA1828) 19PIN

• Adjustment location: L009

Method: Adjust L009 so that the output level at 98.0MHz becomes balanced.

(K, EZ MODELS)

1.	LW Freq. Range Adjustment L016 TC005	
2.	MW Freq. Range Adjustment L017 TC003	
3.	MW Tracking Adjustment L003 TC004	
4.	LW Tracking Adjustment TC006	288kHz

5. AM IF Adjustment

Settings: • Test point: IC001 (LA1828) 19PIN

• Adjustment location: L007

Adjust L007 so that the output level at 1400kHz Method: becomes maximum.

TUNER SECTION >	
H MODEL)	

	L005	87.4MHz
	TC001	108.3MHz
7.	FM Tracki	ing Adjustment
	L004	88.0MHz
	TC002	108.0MHz
8.	FM IF Ad	justment
	Settings:	 Test point: IC001 (LA1828) 19PIN
		 Adjustment location: L008
	Method:	Adjust L008 so that the output level at 98.0MHz
		becomes balanced.
9.	FM Balanc	ce Adjustment
	Settings:	• Test point: IC001 (LA1828) 19PIN
		Adjustment location: L009

< DECK SECTION >

Method:

.88.0MHz

. 108.0MHz

6. FM Freq. Range Adjustment

10. Tape Speed Adjustment

Settings: • Test tape: TTA-100

becomes balanced.

• Test point : J251 (PHONES jack)

• Adjustment location : SFR of deck motor Method: Play back the test tape and adjust SFR so that

the frequency counter reads 3000Hz±30Hz.

Adjust L009 so that the output level at 98.0MHz

11. Head Azimuth Adjustment

Settings: • Test tape: TTA-320

• Test point : J251 (PHONES jack)

· Adjustment location: Azimuth adjustment

Method: Play back the 8kHz signal of the test tape and adjust screw so that the output becomes

maximum.

12. Bias frequncy Adjustment

L801..... .85kHz±0.5kHz

< CD SECTION >

28

13. FE Balance Adjustment

Settings: • Test point: IC401 PIN58 (VR), IC401 PIN 20 (FE)

• Adjustment location : SFR430

Playback the disc and adjust SFR430 so that the Method:

test point voltage becomes 0V.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

Sensitivity: Less than 19dB (88.0MHz) (THD 3%) Less than 18dB (98.0MHz)

Less than 18dB (108.0MHz)

Signal to Noise Ratio: LH MODEL:

(Input 60dB) More than 57dB (at 98.0MHz)

K, EZ MODELS:

More than 50dB (at 98.0MHz)

Distortion: Less than 1.5% (at 98.0MHz)

(Input 60dB)

Intermediate frequency: 10.7MHz ±0.1MHz

Stereo separation: More than 22dB (at 98MHz)

< AM/MW SECTION >

Sensitivity: Less than 45dB (at 600kHz) (S/N 10dB) Less than 45dB (at 1000kHz)

Less than 45dB (at 1400kHz)

Distortion: Less than 3.0%

(Input 74dB)

Intermediate frequency: 455kHz±3.5kHz

< LW SECTION > (K, EZ MODELS)

Sensitivity: Less than 57dB (S/N 10dB) (at 153/198/288kHz) Signal to Noise Ratio: More than 24dB (Input 74dB) (at 198kHz)

Distortion:

(Input: 74/120dB) Less than 3% (at 198kHz)

< CASSETTE SECTION >

Tape speed: 3000Hz+3%-2%

Wow & flutter: Less than 0.35% (JIS RMS)

S/N ratio: More than 35dB
Distortion: Less than 3.0% (PB)
Noise (PB): Less than 1mV

(DC, MIN)

Less than 1.2mV (AC, MIN)

Erasing Ratio (W/O FILTER): More than 45dB

IC DESCRIPTION IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding
			with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	Е	I	Pin to which external pickup photo diode is connected. TE signal is created by
_			subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	О	TE signal output pin.
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band- pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	О	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between
12	TD-	1	the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	О	Tracking control signal output pin.
16	FD	0	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD- and FA- pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	О	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND		Analog signal GND.
23	SP	О	Signal ended output of the CV+and CV- pin input signal.
24	SPI	I	Spndle amp input.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
23	51 0	-	Pin to which external spindle phase compensation constants are connected together
26	SP-	I	with SPD pin.
27	SPD	О	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	О	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	О	Pin from which TES signal is output to DSP.
37	HFL	o	"High Frequency Level" is used to judge whether the main beam position is on top of
3,			bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	О	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	0	"Slice Level Control" is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	_	Digital system GND.
46	FSC	О	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	"Tracking Balance Control" EF balance variable range setting pin.
48	NC	_	No connection.
49	DEF	О	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	О	"Detect RF" RF level detector output.
55	FSS	I	"Focus Search Select" focus search mode (± search/+ search) select pin.
56	VCC2	_	Servo system and digital system Vcc pin.
57	REFI	_	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	О	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	О	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	_	RF system Vcc pin.

IC, LC78622ED

Pin No.	Pin Name	I/O			Description	
1	DEFI	I	Defect sens	se signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I		Test signal in	put pin with built-in pull-down resistor. Be sure to connect to 0V.	
3	PDO	О		Phase compa	arator output pin to control external VCO.	
4	VVSS	_	Eor DI I	For PLL. GND pin for built-in VCO. Be sure to connect to 0V.		
5	ISET	I	FOI FLL.	Pin to which external resistor adjusting the PD0 output current.		
6	VVDD	_		Power supply	y pin for built-in VCO.	
7	FR	I		Pin for VCO	frequency range adjustment.	
8	VSS	_	Digital syst	tem GND. Be	sure to connect to 0V.	
9	EFMO	О	For slice le	val control	EFM signal output pin.	
10	EFMIN	I	For since le	ver control.	EFM signal input pin.	
11	T2	I	Test signal	input pin with	built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK-	О	Disc motor	control outpu	t. Three level output is possible using command.	
14	V/P	0		o or phase cor	ntrol automatic selection monitoring output pin. Rough servo	
15	HFL	I	Track detec	et signal input	pin. Schmidt input.	
16	TES	I	Tracking e	rror signal inpu	ut pin. Schmidt input.	
17	TOFF	О	Tracking O	FF output pin.		
18	TGL	О	Tracking ga	Tracking gain selection output pin. Gain boost at L.		
19, 20	JP+, JP-	О	Track jump	Track jump control signal output pin. Three level output is possible using command.		
21	PCK	О	EFM data p	olayback clock	monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	О	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and thesync signal which is internally generated agree.			
23	VDD			tem power sup		
24	SL+	0		sled to outer c		
25	SL-	0		sled to inner c		
26	CONT3 (NC)		Not connec			
27	PUIN	I		inner switch d	letection.	
28	RW	0	Read, wright			
29	ЕМРН	0	_		put pin. De-emphasis disc is being played back at H.	
30	C2F	0	C2 flag out		i i i i i i i i i i i i i i i i i i i	
31	DOUT	0	_		n. (EIAJ format).	
32, 33	T3, T4	I			built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	† <u> </u>	_	Set the pin to o		
35	MUTEL	0		1	L-channel mute output pin.	
36	LVDD	<u> </u>			L-channel power supply pin.	
37	LCHO	0	L-channel	1-bit DAC.	L-channel output pin.	
38	LVSS	<u> </u>			L-channel GND. Be sure to connect to 0V.	
39	RVSS	_			R-channel GND. Be sure to connect to 0V.	
		+			R-channel output pin.	
40	RCHO	0			ix-chamici output pm.	
40	RCHO RVDD	0	R-channel	1-bit DAC.	R-channel power supply pin.	

Pin No.	Pin Name	I/O	Description
43	XVDD	_	Crystal oscillator power supply pin.
44	XOUT	О	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	Fin to which external 10.9344 MHZ crystal oscillator is connected.
46	XVSS	_	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	О	Subcode block sync signal output pin.
48	EFLG	О	C1, C2, single and dual correction monitoring pin.
49	PW	О	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	О	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not
31	SBCK	1	in use.)
52	FSX	0	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of
32	rsa		crystal oscillator.
53	WRQ	О	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	О	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	T11	О	Test signal output pin. Use this pin as open (normally L output).
60	16M	О	16.9344 MHz output pin.
61	4.2M	О	4.2336 MHz output pin.
62	T5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
62	CS	ı	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V
63	CS	I	while it is not controlling.
64	T1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

IC, LC865516A-5K51

Pin No.	Pin Name	I/O	Description
1	SEG E	О	SEG E control.
2	SEG F	О	SEG F control.
3	SEG G	О	SEG G control.
4	NC	_	Not connected.
5	RESET	I	Micro processor reset input
6	XT1 (IN)	I	Connected to an external 32.768 kHz crystal oscillator.
7	NC	_	Not connected.
8	XT2 (OUT)	О	Connected to an external 32.768 kHz crystal oscillator.
9	GND	_	GND.
10	CF1 (IN)	I	Connected to an external 5.76 MHz ceramic filter.
11	CF2 (OUT)	О	Connected to an external 5.76 MHz ceramic filter.
12	VDD	_	Microprocessor power supply (+5V).
13	I-KEY0	I	Key AD input. (AD)
14	I-KEY1	I	Key AD input. (AD)
15	I-MOTOR	I	Deck status input. (AD)
16	I-CD SW	I	CD door switch status input.
17	O-SHIFT	О	Main clock shift output.
18	NC	_	Not connected.
19	O-BASS LED	О	BASS LED ON/OFF control output. (Not connected)
20	O-QS LED	О	Q sound LED ON/OFF control output. (Not connected)
21	O-SFT LED	_	Not connected.
22	I-DRF	I	CD RF level detection input.
23	I-WRQ	I	CD subcode Q standby input.
24	NC	_	Not connected.
25	I-REM	_	Remote control input.
26	O-CD ON	О	CD power control output.
27	O-TU ON	О	TU power control output.
28	O-P.CONT	О	The main power supply control output.
29	NC	_	Not connected.
30	O-BEAT	О	Beat control.
31	O-MUTE	О	Main mute output.
32	O-DIGIT	О	7-segment LED power supply control output.
33	O-SEG RPEAT	О	REPEAT LED ON/OFF control output.
34	O-COIN	О	CD command output.
35	I-SQOUT	I	CD subcode Q input.
36	O-CQCK	О	CD command/CLK for subcode.
37	O-RWC	О	CD read/write control output.
38	O-DATA	О	Data output to M62349FP.
39	O-CD LED	О	LED ON/OFF control output for the CD function.
40	O-TU LED	О	LED ON/OFF control output for the TU function.
41	O-TA LED	О	LED ON/OFF control output for the TA function. (Not connected)

Pin No.	Pin Name	I/O	Description
42	NC	_	Not connected.
43	SEG DP	О	SEG DP control.
44	SEG A	О	SEG A control.
45	SEG B	О	SEG B control.
46	SEG C	О	SEG C control.
47	SEG D	О	SEG D control.
48	NC		Not connected.

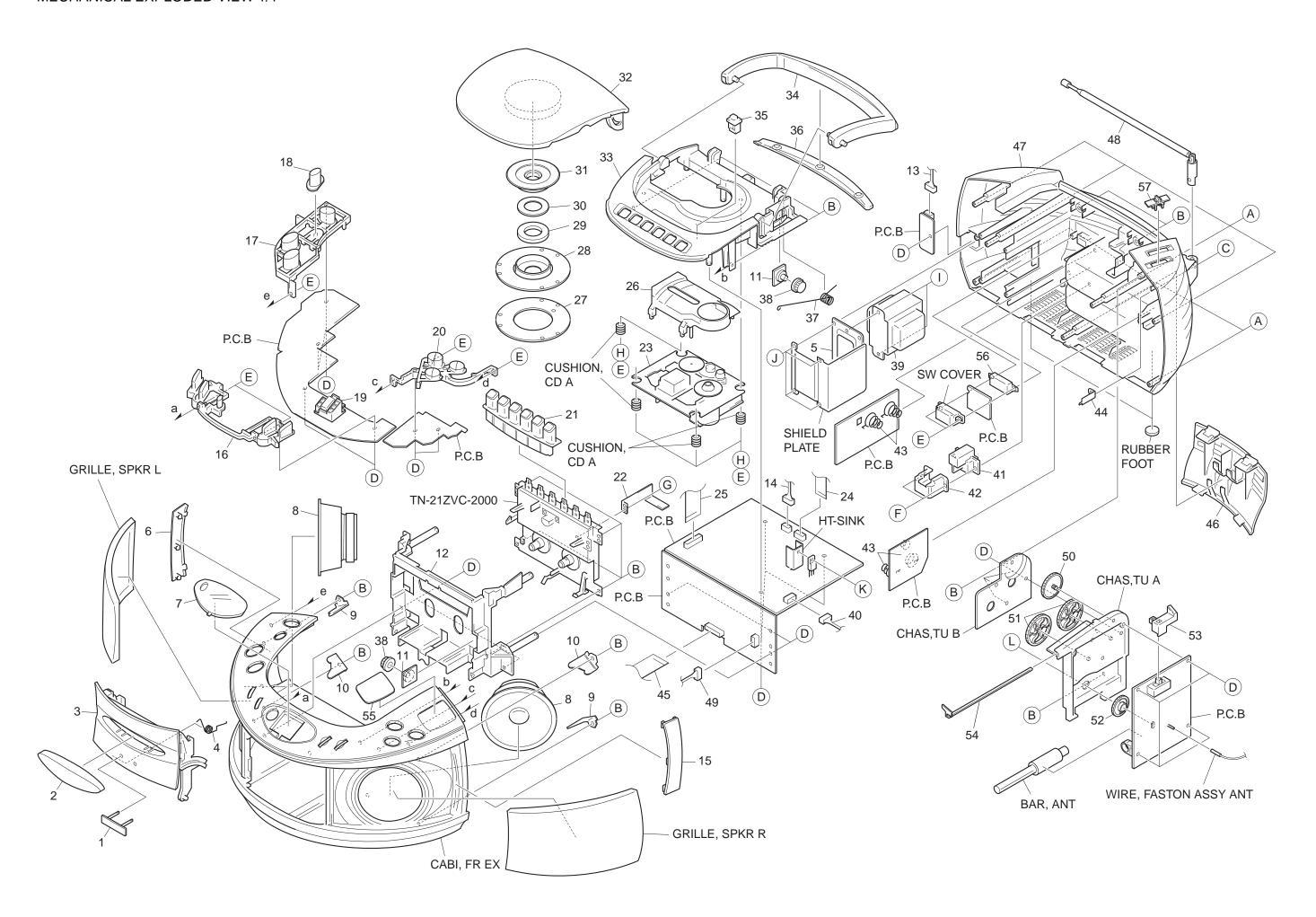
MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

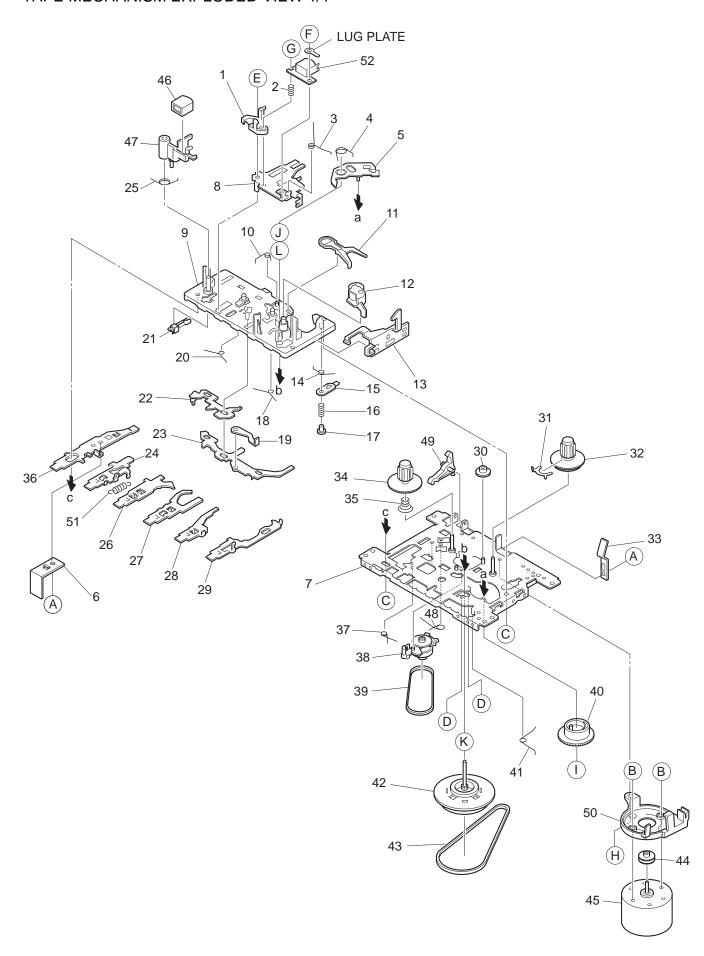
REF. NO	PART NO. KAN		REF. N	0	PART NO. KAN	
2 3 4	8Z-CL7-107-010 8A-CD8-007-010 8A-CD8-006-010 8A-CD8-207-010 8A-CD8-209-010	BADGE,AIWA SILVER WINDOW,CASS BOX,CASS SPR-T,CASS HLDR,TRANS	<u>^</u>	41 42 43	8A-CD9-630-010 87-A60-178-010 87-A90-086-010 88-CD8-209-010 8A-CD8-212-010	CONN ASSY, 4P RPH JACK, AC E W/SW COVER, AC-SOCKET SPR-C, BATT HLDR, ANT
7 8 9	8A-CD8-018-010 8A-CD8-043-010 88-CD8-622-010 8A-CD8-210-010 8A-CD8-211-010	PANEL,FR L WINDOW,DISPLAY EX SPKR,F 77 70HM 3W HLDR,SPKR A HLDR,SPKR B		46 47 47	8A-CD9-620-010 8A-CD8-003-010 8A-CD8-026-010 8A-CD8-024-010 8Z-CH4-640-010	FF-CABLE, 16P FR-MAIN LID, BATT CABI, REAR EZ <k<s>, EZ<s>> CABI, REAR U<lh<s>, 519LH1J<s>> ANT, ROD</s></lh<s></s></k<s>
12 13 14	84-CD5-215-010 8A-CD8-021-010 8A-CD9-633-010 8A-CD9-626-010 8A-CD8-022-010	GEAR CHAS,CASS CONN ASSY,4P SP CONN ASSY,2P DOOR PANEL,FR R	!	50 51 52	8A-CD9-631-010 8A-CD8-012-010 8A-CD8-201-010 8A-CD8-203-010 8A-CD8-202-010	CONN ASSY,4P TP-ME KNOB,RTRY TU GEAR,IDLER DRUM,DIAL LEVER,BAND
17 18 19	8A-CD8-016-010 8A-CD8-014-010 8A-CD8-017-010 8A-CD8-206-010 8A-CD8-015-010	KEY,CONTROL CD KEY,VOL KEY,QSOUND HLDR,LED KEY,FUNC	. !	55 55	8A-CD8-010-010 8A-CD8-030-010 8A-CD8-029-010 87-A91-369-010	POINTER,TU WINDOW,DIAL EZ <k<s>,EZ<s>> WINDOW,DIAL U<lh<s>,519LH1J<s>> SW,AC SL 2 2 SDKGA41700 <lh<s>,519LH1J<s>></s></lh<s></s></lh<s></s></k<s>
22 23 24	8A-CD8-011-010 8A-CD8-213-010 M8-ZZK-E90-070 8A-CD9-622-010 8A-CD9-621-010	KEY,CASS SET SPR-P,REC DA11T3C FF-CABLE, 8P CD-FR FF-CABLE, 16P CD-RF	!	A B C D	8A-CD8-013-010 87-B10-242-010 87-741-095-410 87-741-097-410 87-741-095-410 87-342-074-010	KNOB, SL BAND UT2+3-30 W/O CR UT2+3-8 W/O SLOT U+3-12 CR UT2+3-8 GLD UT2+2.6-8
27 28 29	8Z-CDB-169-010 88-CD9-211-210 8Z-CDB-170-010 87-036-368-010 84-CT5-209-010	PANEL,CD SANYO RING,CHUCK BASE,CHUCK MAGNET PLATE,MAGNET		F G H I	87-353-076-210 87-571-032-410 87-WA5-253-010 87-751-094-410 87-661-097-410	VT2+2.6-12 VIT+2-3 W,3.3-10-0.8 VT2+3-6 W10SLOT TAPPING SCREW, VFT1+3-12
32 33 34	8Z-CH4-225-010 8A-CD8-027-010 8A-CD8-028-010 8A-CD8-008-010 87-036-389-010	HLDR, CHUCK A(S) BOX,CD EX CHAS,CD EX HANDL,FR SW,PUSH LOCK			87-067-566-010 87-501-073-410	TAPPING SCREW, VFTT+3-6 VF+2.6-6
37 38 <u>1</u> 39	8A-CD8-009-010 8A-CD8-208-010 84-CD5-216-010 8A-CD8-603-010 8A-CD8-604-010	HANDL,REAR SPR-T,CD BRACKET PT,E 2.5W <k<s>,EZ<s>> PT,H 2.5W<lh<s>,519LH1J<s>></s></lh<s></s></k<s>				

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
Т	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		



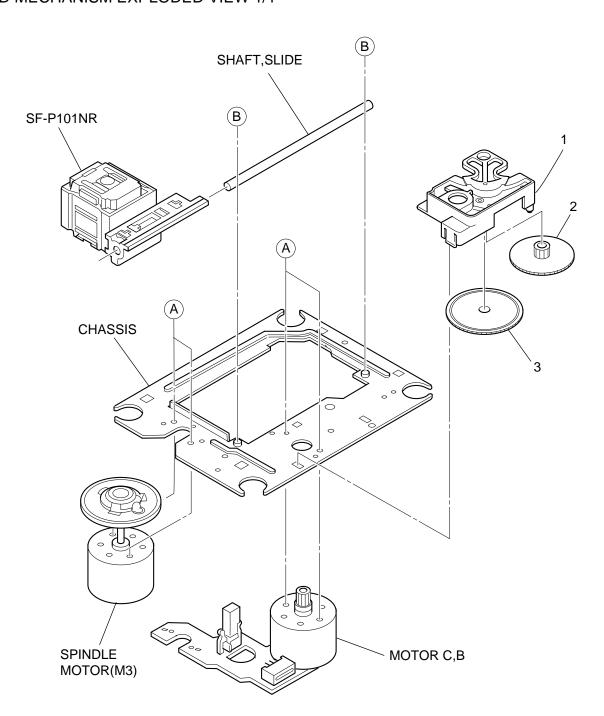
TAPE MECHANISM EXPLODED VIEW 1/1



TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO		PART NO.		NRI DESCRIPTION NO.
1	01 001 000 434	110.	DAGE	36 37 38 39 40		001 140		
	S1-921-030-4A0 S1-821-030-070	J HEAD	BASE	3.5		-921-140		REC BUTTON LEVER
		J AZIM	UTH SPRING	3 1		-921-140		
	S1-921-030-090	J PANE	L P SPRING	38		-921-073		RF CLUTCH ASSY
	S1-921-260-050	J GEAR	PLATE SPRING	35		-921-070		RF BELT
5	S1-921-265-020) GEAR	PLATE ASSY	40) SI-	-921-260	1-020	CAM GEAR
6	S1-510-020-020	O REC	SPRING PLATE	41	S1	-921-140	-160	E ACTUATOR SPRING
7	S1-921-015-010	CHAS	SIS ASSY	42	2 S1-	-921-093	3-210	FLYWHEEL ASSY
8	S1-921-030-110) HEAD	PANEL	43	8 S1-	-921-090	-380	MAIN BELT
9	S1-921-143-160) BASE	ASSY	44	1 S1-	-921-120	-590	MOTOR PULLEY
10	S1-921-141-8A0	M CO	NTROL SPRING	45	S6-	-002-030	-220	MOTOR EG530AD-2B
11	S1-921-260-4A) SENS	ING LEVER	46	5 S6-	-209-100	-100	E HEAD PH-K380-MS1
	S1-921-043-100) PINC	ING LEVER H ROLLER ARM ASSY	47		-921-030		MG ARM
	S1-921-130-010) EIEC	T SLIDE LEVER			-921-140		REC BUTTON LEVER SPRING
	S1-921-141-3A		NTROL SPRING			-821-100		RECORD SAFETY LEVER
	S1-921-140-550		E LEVER(E)			-821-128		MOTOR BRACKET
13	DI 921 110 550			51 52 7 E				NOTOR BRACKET
16	S1-921-140-120) PAUS	E LEVER SPRING	51	S1	-821-010	-500	PLAY BUTTON LEVER SPRING
17	S1-921-140-110) PAUS	E STOPPER	52	2 S6-	-201-011	-110	HEAD,RP7442ES-0951
18	S1-921-140-150) BUTT	ON LEVER SPRING(B)	I	S9-	-P04-200	-310	C TAPPING SCREW 2-3
19	S1-821-011-590) EKI	CK LEVER	E	3 S1-	-921-120	020	MOTOR COLLER SCREW
20	S1-921-141-070) BUTT	ON LEVER SPRING(A)	(: S9-	-B10-200	-510	P TAPPING BIND SCREW M2-5
21	S6-401-011-490) LEAF	SW MSW-1541T	I	S9-	-C07-204	-510	SCREW, TAPPING(CAMERA)M2-4.5
22	S1-921-140-090	O SWIT	CH ACTUATOR	E	S9-	-P01-200	-610	SCREW,M2-6
	S1-921-140-080		BUTTON ACTUATOR	F	r S9-	-B01-200	-310	(+)BIND SCREW M2-3
	S1-921-140-190		BUTTON LEVER	(S9-	-F08-200	710	AZIMUTH SCREW M2-7
	S1-921-030-100		RM SPRING	I F C F	I S1-	-921-120	0.030	
				I C F I				
26	S1-921-140-040) REW	BUTTON LEVER]	S9-	-W02-300	-100	P WASHER CUT 1.2-3.8-0.3
27	S1-921-140-050) FF.B	UTTON REVER	Ţ	r S9-	-W02-500	-100	P WASHER CUT 1.45-3.8-0.5
	S1-921-140-060		BUTTON LEVER	, k	S9-	-W01-400	100	P WASHER 2-3.5-0.4
	S1-921-140-600		E BUTTON LEVER	Ī	. S9-	-W01-130	1-200	P WASHER 2.1-4-0.13
	S1-821-100-700		EAR					
50	01 011 100 700							
31	S1-921-050-060) SENS	ER					
32	S1-921-053-100) TAKE	UP REEL ASSY					
33	S1-829-100-010) PACK	SPRING					
	S1-921-050-150		EL HUB					
	S1-921-050-220		TENSION SPRING					
33	SI 701 000 220	Dilcic	121.01011 011(11)					



CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S2-121-A28-40) COVER	R GEAR
2	S2-511-A21-00) GEAR	MIDDLE
3	S2-511-A21-10	GEAR,	DRIVE
A	S1-PN2-03R-OS	E SCR E	PAN PCS 2-3
В	87-261-073-41	SCR S	S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-07	DA117	T3C

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. N	0		NRI DESCRIPTION O.
		18	0.
	1	8A-CD8-906-010	IB,EZ(9L)B <ez<s>></ez<s>
	1	8A-CD8-905-010	IB,K(E)B <k<s>></k<s>
	1	8A-CD9-902-010	IB,LH(ESP)B <lh<s>></lh<s>
	1	8A-CD8-940-010	<pre>IB,LH1(P)KIT<519LH1J<s>></s></pre>
⚠	2	87-A80-036-010	AC CORD SET ASSY, E W/FLTR VOL <except k<s="">></except>
À	2	87-A80-034-010	AC CORD SET ASSY,K W/F MAY-BG <k<s>></k<s>
<u>/</u> 1\			· · · · · · · · · · · · · · · · ·
$\stackrel{\triangle}{\mathbb{A}}$	3	87-A90-312-010	PLUG, CONVERSION WTN-1157R1 <lh<s>,519LH1J<s>></s></lh<s>

REFERENCE NAME LIST ELECTRICAL SECTION

DESCRIPTION REFERENCE NAME ANT ADHESHIVE **ANTENNAS** C-C-CAP CHIP CAP, CHIP CAP, CHIP TANTALUM BAR-ANT C-CAP TN C-COIL COIL, CHIP BATT DIODE, CHIP DIODE, CHIP BRG C-DIODE BTN C-FET FET, CHIP C-FOTR C-JACK FILTER, CHIP CASS JACK, ĆHIP **CHAS** LED, CHIP RES, CHIP C-LED CLR C-RES CONT SFR, CHIP SLIDE SWITCH, CHIP C-SFR CRSR C-SLIDE SW CUSH C-SW SWITCH, CHIP TRANSISTOR, CHIP C-VR VOLUME. CHIP DUBB C-ZENER ZENER, CHIP CAP, CER CAP, E CAP, CERA-SOL FLY-WHL CAP, M/F CAP, TC CAP, TC-U CAP, TN FUN G-CU CAP. FILM CAP, CERA-SOL CAP, CERA-SOL SS HDI CAP, TANTALUM HIMERON **CERA FIL** FILTER, CERAMIC HINGE, BAT FILTER, CERAMIC DELAY LINE CAP, ELECT HLDR HT-SINK DL E/CAP FILT IDLE FILTER FLTR IND, L-R KEY, CONT KEY, PRGM **FUSE RES** RES, FUSE MOT P-DIODE P-SNSR P-TR MOTOR PHOTO DIODE PHOTO SENSER KNOB, SL LBL LID, BATT PHOTO TRANSISTOR LID, CASS POLY VARI VARIABLE CAPACITOR LVR P-SP PPCAP POWER TRANSFORMER PTR, MELF PT PTR, RES RC REMOTE CONTROLLER RES NF RESO RES, NON-FLAMMABLE RESONATOR SHLD SHIELD RBN SOLENOID SPEAKER SOL SPKR S-SEG SW, LVR SWITCH, LEVER SW, RTRY SWITCH, ROTARY SHLD-SH SW, SL TC CAP THMS SL SP SP-SCREW SWITCH, SLIDE CAP, CERA-SOL THERMISTOR **TRANSISTOR** TRIMMER CAP, TRIMMER SPR TUN-CAP VARIABLE CAPACITOR SPR-PC-PUSH T-SP RESONATOR, CERAMIC RESONATOR, CRYSTAL VIB, CER VIB, XTAL VR ZENER VOLUME TERM DIODE, ZENER TRIG VOL

MECHANICAL SECTION DESCRIPTION REFERENCE NAME SHEET ADHESHIVE AZIMUTH BAR-ANTENNA BATTERY BATTERY **BEARING** BUTTON CABINET CASSETTE CHASSIS COLLAR CONTROL CURSOR CUSHION DIRECTION DUBBING FRONT LOADING **FLYWHEEL** FUNCTION G-CUSHION HANDOL CLOTH HINGE, BATTERY HOLDER HEAT SINK INSTRUCTION BOOKLET IDLER INDICATOR, L-R KEY, CONTROL KEY, PROGRAM KNOB, SLIDE LABEL LID, BATTERY LID, CASSETTE LEÝER P-SPRING PANEL, CONTROL PANEL, FRONT PANEL, CONT PANEL, FR PROGRAM PULLY, LOAD MOTOR PULLY, LOAD MO RIBBON SPECIAL SEGMENT SHEET SHIELD-SHEET SLIDE SPRING SPECIAL-SCREW SPACER, BAT SPACER, BATTERY SPRING

P-SPRING

TERMINAL

TRIGGER

WASHER

WORM-WHEEL

WHEEL

WHL

WORM-WHL

P-SPRING, C-PUSH T-SPRING

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